IN THE CLAIMS

This listing of the claim will replace all prior versions and listings of claim in the present application.

Listing of Claims

1. (currently amended)A transmit power controlling method in a code division multiple access communication system ~~comprising~~ which includes a radio base station and a mobile station, said method comprising the steps of:

~~characterized in that~~

transmitting, by said radio base station, ~~transmits~~ a transmit power controlling signal for controlling transmit power of ~~the~~ said mobile station~~,~~; and

generating, by ~~that~~ said mobile station, ~~generates~~ a reference values for calculating a control amount of transmit power of said mobile station based on ~~likelihood of said transmit power controlling signal on the basis of~~ the ~~received~~ transmit power controlling signal received from said radio base station and the receiving quality of the transmit power controlling signal, ~~to generate~~and generating a variation amount of the transmit power based on ~~the basis of~~ said reference value~~likelihood~~, so that the transmit power of ~~the~~ said mobile station is ~~would be~~ controlled based on ~~the basis of~~ the variation amount.

2. (currently amended)The transmit power controlling method in a code division multiple access communication system according to Claim 1, ~~characterized in that~~wherein said reference value ~~likelihood~~ is generated with a perch channel

receiving quality of a signal transmitted from said radio base station also taken into account.

3. (currently amended)The transmit power controlling method in a code division multiple access communication system according to Claim 1, ~~characterized in that~~wherein the receiving quality of a perch channel signal transmitted from said radio base station is compared with the receiving quality of athe transmit power controlling signal so that it is determined that a call is cut off when only one of the receiving qualities is deteriorated and it is determined that a receiving condition is no longer proper when the both of the receiving qualities are deteriorated, and in that the ~~likelihood~~ reference value is generated based on ~~the basis of~~ a result of the determination.

4. (currently amended)The transmit power controlling method in a code division multiple access communication system according to Claim 1, ~~characterized in that~~wherein, when an absolute value of the likelihood of said transmit power controlling signal is ~~large~~larger than a predetermined value, an upper limit value and a lower limit value of the transmit power of a mobile station are updated and maintained so that the transmit power of said mobile station is limited between said upper limit value and said lower limit value.

5. (currently amended)The transmit power controlling method in a code division multiple access communication system according to Claim 1, ~~characterized~~

~~in that~~wherein an average value of the transmit power of a mobile station is generated, and that the transmit power of said mobile station is switched based on ~~the basis of~~ the size of said ~~likelihood~~ reference value so as to be either said generated average transmit power of the mobile station or transmit power of the mobile station that is generated based on ~~the basis of~~ said ~~likelihood~~reference value.

6. (currently amended)The transmit power controlling method in a code division multiple access communication system according to Claim 1, ~~characterized in that~~wherein an open loop transmit power signal is generated based on ~~the basis of~~ the receiving quality or the receiving power of another channel different from a channel being used, and that the transmit power of said mobile station is switched based on ~~the basis of~~ the size of said ~~likelihood~~ reference value so as to be ~~said~~ a transmit power based on the generated open loop transmit power controlling signal or transmit power ~~of the mobile station that is~~ based on the generated reference value~~on the basis of said likelihood~~.

7. (currently amended)The transmit power controlling method in a code division multiple access communication system according to Claim 1, ~~characterized in that~~wherein said transmit power controlling signal is a signal comprising two values, and that said ~~likelihood~~ reference value is calculated so that an absolute value of the ~~likelihood~~ reference value would be ~~large~~ larger than a predetermined value when the receiving quality is ~~good~~ better than a predetermined quality and so that an absolute value of the ~~likelihood~~ reference value would be ~~small~~ smaller than

a predetermined value when the receiving quality is ~~bad~~worse than a predetermined quality.

8. (currently amended)The transmit power controlling method in a code division multiple access communication system according to Claim 7, ~~characterized in that~~wherein the transmit power is increased when said ~~likelihood~~ reference value is greater than or equal to a first reference value ~~or more~~,

wherein ~~that~~ the transmit power is maintained when said ~~likelihood~~ reference value is greater than or equal to ~~less than said first reference value and~~ a second reference value ~~or more~~, and

wherein ~~that~~ the transmit power is decreased when said ~~likelihood~~ reference value is less than said second reference value.

9. (currently amended)The transmit power controlling method in a code division multiple access communication system according to Claim 7, ~~characterized in that~~wherein the transmit power is increased when said ~~likelihood~~ reference value is greater than or equal to said first reference value ~~or more~~,

wherein ~~that~~ the transmit power is toggle-controlled when said ~~likelihood~~ reference value is ~~less than said first reference value and~~ greater than or equal to said second reference value ~~or more~~, and

wherein ~~that~~ the transmit power is decreased when said ~~likelihood~~ reference value is less than said second reference value.

10. (currently amended)The transmit power controlling method in a code division multiple access communication system according to Claim 7, ~~characterized in that~~wherein the transmit power is increased when said ~~likelihood~~ reference value is greater than or equal to said first reference value ~~or more~~, that a variation amount of the transmit power is made to be the power corresponding to said ~~likelihood~~ reference value when said ~~likelihood~~ reference value is greater than or equal to ~~less than said first reference value and~~ said second reference value ~~or more~~, and

wherein ~~that~~ the transmit power is decreased when said ~~likelihood~~ reference value is less than said second reference value.

Claim 11 (canceled).

12. (currently amended)A mobile station characterized by comprising:

receiving means for receiving transmit power controlling information transmitted by a radio base station;

measuring means for measuring the receiving quality of a wave transmitted by said radio base station;

reference value ~~likelihood~~ generating means for generating a ~~likelihood~~ reference value for calculating a control amount of transmit power for said mobile station ~~of said transmit power controlling information~~ based on ~~the basis of~~ the transmit power controlling information received by said receiving means from said radio base station and the receiving quality measured by said measuring means;

_____variation amount generating means for generating a variation amount of the transmit power based on ~~the basis of~~ the ~~likelihood~~ reference value generated by said ~~likelihood~~ reference value generating means; and

_____controlling means for controlling the transmit power of a mobile station based on ~~the basis of~~ the variation amount generated by said variation amount generating means.

13. (currently amended)The mobile radio station according to Claim 12, ~~characterized by~~ further comprising:

_____perch channel receiving quality measuring means for measuring the receiving quality of a perch channel signal transmitted by said radio base station,

_____wherein said ~~likelihood~~ reference value generating means generates a ~~likelihood~~ reference value with the receiving quality measured by said perch channel signal receiving quality measuring means taken into a consideration.

14. (currently amended)A code division multiple access communication system comprising:

_____a radio base station; and

_____a mobile station, ~~characterized in that~~

wherein said radio base station comprises:

_____transmit power controlling information generating means for generating transmit power controlling information for controlling the transmit power of a mobile station;, and

_____transmitting means for transmitting the transmit power controlling information generated by said transmit power controlling information generating means, and ~~that~~ wherein said mobile station comprises:

_____receiving means for receiving the transmit power controlling information transmitted by said transmitting means~~;~~,

_____measuring means for measuring the receiving quality of a wave transmitted by said radio base station~~;~~,

_____reference value ~~likelihood~~ generating means for generating a ~~likelihood~~ reference value of said transmit power controlling information based on ~~the basis of~~ the transmit power controlling information received by said receiving means and of the receiving quality measured by said measuring means~~;~~,

_____variation amount generating means for generating a variation amount of the transmit power based on ~~the basis of~~ the ~~likelihood~~ reference value generated by said ~~likelihood~~ reference value generating means~~;~~, and

_____controlling means for controlling the transmit power of a mobile station based on ~~the basis of~~ the variation amount generated by said variation amount generating means.

Claims 15-18 (canceled).